

INTERNATIONAL SEARCH REPORT

Inte... al Application No
PCT/IB2004/002877

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B47/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 709 032 A (COLES R ET AL) 9 January 1973 (1973-01-09) column 5, lines 19-52; claims 1-5 -----	1,3-6, 8-12
Y	US 6 305 216 B1 (SAMAROO BRIAN H) 23 October 2001 (2001-10-23) column 4, lines 45-63 - column 6, lines 9-26 claims 1,17 -----	1,3-6, 8-12,27
X	US 6 618 677 B1 (BROWN GEORGE ALBERT) 9 September 2003 (2003-09-09) claims 1,2 -----	18,20
Y	US 2 739 475 A (NOWAK THEODORE J) 27 March 1956 (1956-03-27) column 2, lines 54-63 - column 4, lines 10-47 -----	27
A		13,16,17
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the International search

14 December 2004

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27/12/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 480 079 A (WRIGHT WILLIAM SHERWOOD ET AL) 25 November 1969 (1969-11-25) column 7, lines 1-19 -----	1

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 3709032	A	09-01-1973	NONE			
US 6305216	B1	23-10-2001	AU CA EP NO WO	2072401 A 2392618 A1 1240495 A1 20023024 A 0146673 A1		03-07-2001 28-06-2001 18-09-2002 21-06-2002 28-06-2001
US 6618677	B1	09-09-2003	AT AU BR CA DE DK EA EP WO NO US	250212 T 5833900 A 0012337 A 2378564 A1 60005357 D1 1196743 T3 3769 B1 1196743 A1 0104581 A1 20020078 A 2004006429 A1		15-10-2003 30-01-2001 19-03-2002 18-01-2001 23-10-2003 22-12-2003 28-08-2003 17-04-2002 18-01-2001 07-03-2002 08-01-2004
US 2739475	A	27-03-1956	NONE			
US 3480079	A	25-11-1969	NONE			